

### **ABSTRACT OF THE DISCLOSURE**

A dispersion fluid filtration and delivery apparatus and method are provided for filtering a dispersion fluid from a storage vessel and delivering a filtrate thereof to a filtrate using operation. The dispersion fluid  
5 filtration and delivery apparatus for the method includes (a) a filter device having an inlet port, a first outlet port for connecting to the storage vessel, and a second outlet port for connecting to the filtrate using operation; (b) an inlet pump connected between the inlet port and the storage vessel for pumping a first quantity  $Q_{in}$  of dispersion fluid into the filter device; and (c) an  
10 outlet pump connected between the first outlet port and the storage vessel for pumping a second quantity  $Q_{out}$  of dispersion fluid from the filter device back into the storage vessel. The outlet pump and the inlet pump are sized and controlled so that  $Q_{out}$  is less than  $Q_{in}$ , and so that the resulting filtrate flow  $Q_r$  from the filter device through the second outlet port to the filtrate using  
15 operation is equal to  $Q_{in} - Q_{out}$ .